DJ-Silicone product data

NE71 Series

Common silicone rubber for molding&extrusion has excellent high and low temperature resistance, electrical performance, and physical and mechanical properties. Despite of slightly worse transparency than general silicone rubber, it is more suitable for manufacturing colored products.

There are two kinds of this product, namely modifying silicone rubber for molding and modifying silicone rubber for extrusion. The former can be vulcanized by DMDBH and used for manufacturing industrial accessories like keypad, seal ring and seal pad etc, while the latter can be vulcanized by DCBP and used for manufacturing wire, cable, rubber tube and rubber strip etc.

Common Silicone Rubber for Molding

Item \ Data / Type	NE-7125	NE-7130	NE-7140	NE-7150	NE-7160	NE-7170	NE-7180	NE-7190
Appearance	milky-white, slightly yellow, no obvious extraneous matter							
Density , g/cm³	1.05±0.05	1.08±0.05	1.13±0.05	1.15±0.05	1.19±0.05	1.22±0.05	1.25±0.05	1.26±0.05
Hardness , Shore A	25±3	30±3	40±3	50±3	60±3	70±3	80±3	86±2
Tensile Strength , MPa ⩾	3.5	5.0	6.5	7.5		7.0		4
Elongation at Breakage , % ⩾	700	450	400	320	280	200	150	80
Tension Set , % ⩽	8	7		8		7	6	6
Tear Strength , kN/m ⩾	10	15	16	18		17	16	10

First vulcanization condition for test piece: 175℃×5min, Vulcanizator: 80% DMDBH,quantity added 0.65%。

Common Silicone Rubber for Extrusion

Item \ Data / Type	NE-7240	NE-7250	NE-7260	NE-7270	NE-7280
Appearance	milky-white, slightly yellow, no obvious extraneous matter				
Density, g/cm³	1.13±0.05	1.18±0.05	1.20±0.05	1.22±0.05	1.25±0.05
Hardness , Shore A	40±2	50±3	60±3	70±3	80±3
Tensile Strength , MPa ⩾	6.5	7.5		7.0	6.5
Elongation at Breakage , % ⩾	450		360	250	150
Tension Set , % ⩽	14				10
Tear Strength , kN/m ⩾	16	18	20		18
Volume Resistivity, Ω·cm ⩾	1.0×10^{14}				
Dielectric Strength , kV/mm ⩾	18				

Physical and Mechanical Properties are based on first vulcanization data,Electrical Properties are drawn from second vulcanization data.

first vulcanizationcondition for test piece: 175℃×5min

Second vulcanizationcondition for test piece: 200℃×2h

Vulcanizator: 80% DMDBH,quantity added 0.65%

NE91 Series

Character: Excellent physical properties, anti-yellowing performance, and good processability

Application: NE-91 is suitable for molding application with higher transparency requirements.

E.g. keypad, sanitation commodity for living, O-ring, seal ring (parts for industrial use)

NE-91 Series

Item \ Data Type	NE-9130	NE-9140	NE-9150	NE-9160	NE-9170	NE-9180	NE-9190
Appearance	Translucent, no obvious extraneous matter						
Density, g/cm³	1.07±0.04	1.13±0.04	1.15±0.04	1.18±0.04	1.22±0.04	1.25±0.04	1.26±0.05
Hardness, Shore A	30±2	40±2	50±2	60±2	70±2	80±2	86±2
Tensile Strength, MPa ≥	8.0		8.5		8.0		6.0
Elongation at Breakage, % ≥	700	600	500	400	300	200	120
Tension Set, % ≤	8						6
Tear Strength, kN/m ≥	15	20	25			20	10
Volume Resistivity, Ω·cm ≥	1×10^{15}						
Dielectric Strength, kV/mm ≥	20						
Linear Shrinkage rate, %	3.1~3.7	3.0~3.6	2.9~3.4	2.8~3.3	2.6~3.2	2.4~3.0	2.4~3.0

Physical and Mechanical Properties are based on the first vulcanization data,Electrical Properties are drawn from the second vulcanization data.

The first vulcanization condition for test piece: 175℃×5min； The second vulcanization condition for test piece: 200℃×2h

Vulcanizator: Liquid DMDBH, quantity added 0.65%

NE93 Series

Character: High tear strength

Application: NE-93 is suitable for products with special tear strength requirements.

E.g. complicated bake wares, cell phone cover

NE-93 Series

Item \ Type \ Data	NE-9330	NE-9340	NE-9350	NE-9360	NE-9370	NE-9380
Appearance	Translucent, no obvious extraneous matter					
Density, g/cm³	1.07±0.04	1.13±0.04	1.15±0.04	1.18±0.04	1.22±0.04	1.25±0.04
Hardness, Shore A	32±2	40±2	50±2	60±2	70±2	80±2
Tensile Strength, MPa ≥	8.0	9.0			8.5	8.0
Elongation at Breakage, % ≥	700	600	500	400	300	200
Tension Set, % ≤	8				10	8
Tear Strength, kN/m ≥	20	35	40			20
Volume Resistivity, Ω·cm ≥	1×10^{15}					
Dielectric Strength, kV/mm ≥	20					
Linear Shrinkage rate, %	3.2~3.7	3.0~3.6	2.9~3.4	2.8~3.4	2.6~3.2	2.4~3.0

Physical and Mechanical Properties are based on the first vulcanization data,Electrical Properties are drawn from the second vulcanization data.

The first vulcanization condition for test piece: 175℃×5min； The second vulcanization condition for test piece: 200℃×2h

Vulcanizator: Liquid DMDBH, quantity added 0.65%

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